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**PHOTOGRAPHIC  
INTERPRETATION  
REPORT**

**NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER**

**STATUS OF SS-7 AND SS-8  
LAUNCH SITES  
USSR**

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## STATUS OF SS-7 AND SS-8 LAUNCH SITES, USSR

## ABSTRACT

1. A review of all 92 Soviet deployed SS-7 and SS-8 ICBM launch sites was conducted using the latest available KEYHOLE photography to determine the current state of readiness of each launch site. The review includes both active launch sites and those sites considered to be in a reduced state of readiness. This report includes tables listing the date of last observation, equipment present, and activity observed at each of the 92 launch sites.

## BASIC DESCRIPTION

2. The 84 SS-7 launch sites deployed at 14 ICBM complexes and the eight SS-8 launch sites deployed at three ICBM complexes

[redacted] This photography was reviewed to determine the state of readiness of all of the SS-7 and SS-8 deployed ICBM launch sites, including the 17 soft SS-7 launch sites that currently are considered to be in a reduced state of readiness. Indicators used to determine the state of readiness included the presence of launch equipment, propellant vehicles or facilities on each launch site, the condition of pavement on launch pads and service roads, and any missiles or missile activity observed.

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## SS-7 Launch Sites

3. The 17 SS-7 soft ICBM launch sites considered to be in a reduced state of readiness (Table 1) are at seven ICBM complexes with 34 launch positions. No additional launch sites have been identified in a reduced state of readiness since October 1973 when this condition was first observed at Perm Launch Site 2. Activity and vehicles observed at several of these 17 SS-7 launch sites indicate they are now being used to support other units and are no longer in use as ICBM launch sites.

4. At the Itatka ICBM Complex, ground force tanks and support vehicles have been seen on the launch pads at all three of the launch sites and in the complex administration and housing area. In the rail-to-road transfer point (RTP), ten of the SS-7 missile propellant storage tanks had been removed from the propellant facility [redacted] The presence of ground force elements on the three launch sites and the removal of the missile propellant tanks in the RTP is strong evidence that this complex is no longer operational as an ICBM complex.

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5. Three other SS-7 launch sites, Drovyanaya Launch Site 1, Perm Launch Site 1, and Svobodnyy Launch Site 3, are being used as probable maintenance facilities for general-purpose-type vehicles.

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7. Activity and equipment observed at the remaining 67 deployed SS-7 ICBM launch sites (Table 2) indicate that there has been no change in the operational status of these launch sites.

## SS-8 Launch Sites

8. The condition and status of the eight SS-8 ICBM launch sites deployed at three ICBM complexes remained unchanged (Table 3). The activity and equipment seen at each of these launch sites appeared to be normal for operational SS-8 launch sites. Liquid oxygen railcars were present in the rail-to-road transfer point at the Kozelsk Omsk and Tyumen ICBM Complexes indicating that a supply of oxidizer for this missile system was being maintained.

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Table 1. Status of SS-7 Launch Sites in a Reduced State of Readiness

| ICBM Complex/<br>BE No. | Launch Site   | Type | Equipment on<br>Launch Pads   | Status of<br>Propellant<br>Facilities        | Status of<br>Access Roads  | Remarks   |
|-------------------------|---------------|------|---|--|--|---|
| Drovyanaya              | Launch Site 1 | IIB  | SS-7 missile trans-<br>porters on both<br>launch pads   | Storage tanks<br>still in place              | Serviceable  | Launch stands removed; prob being<br>used as a vehicle maint fac temporary<br>structure on east launch pad  |
| Itatka                  | Launch Site 1 | IIB  | Launch stands and<br>SS-7 missile trans-<br>porters on both<br>launch pads  | Undet (covered)                              | Serviceable  | Elements of the ground forces were on<br>all 3 launch sites & in admin & housing<br>area; 10 propellant storage tanks re-<br>moved from propellant fac in rail-to-<br>road transfer point |
|                         | Launch Site 2 | IIB  | Launch stand &<br>unid object on<br>west launch pad;<br>launch stand &<br>SS-7 missile trans-<br>porter on east<br>launch pad | Storage tanks<br>still in place              | Serviceable  |   |
|                         | Launch Site 3 | IID  | Launch stand & SS-7<br>missile transporter<br>on both launch pads   | Undet (earth<br>mounded)                     | Serviceable  |   |
| Kostroma                | Launch Site 1 | IIB  | 1 SS-7 missile trans-<br>porter was on each<br>launch pad   | Undet (covered)                              | Serviceable  | Launch stands removed   |
|                         | Launch Site 2 | IIB  | Unid object was on<br>both launch pads  | Propellant supply<br>pipelines remov-<br>ed  | Serviceable  | Launch stands removed   |
|                         | Launch Site 3 | IIB  | Unid object was on<br>both launch pads  | Propellant storage<br>tanks removed          | Paving blocks<br>removed front<br>& rear both<br>pads  | Launch stands removed   |
| Perm                    | Launch Site 1 | IIB  | None  | Storage tanks<br>still in place              | Serviceable  | Launch stands removed; prob being<br>used as a vehicle maint fac  |
|                         | Launch Site 2 | IIB  | Launch stands &<br>SS-7 missile trans-<br>porters   | Storage tanks<br>still in place              | Serviceable  |   |
| Svobodnyy               | Launch Site 1 | IIB  | None  | Pipelines remov-<br>ed                       | Serviceable  | Launch stands removed   |
|                         | Launch Site 2 | IIB  | None  | Storage tanks<br>still in place              | Serviceable  |   |
|                         | Launch Site 3 | IIB  | SS-7 missile trans-<br>porter on east pad   | Storage tanks<br>still in place              | Serviceable  | Launch stands removed; prob being<br>used as vehicle maint fac  |
|                         | Launch Site 4 | IID  | SS-7 missile trans-<br>porter on east pad   | Undet (earth<br>mounded)                     | Serviceable  | Launch stands removed   |
| Teykovo                 | Launch Site 2 | IIB  | Launch stands &<br>unid object on both<br>launch pads   | Pipelines remov-<br>ed                       | Unserviceable;<br>paving blocks re-<br>moved front &<br>rear of both<br>launch pads          | Site being used as complex nuclear<br>warhead handling & storage fac;<br>new clerestory bldg ucon   |
|                         | Launch Site 3 | IIB  | Launch stands &<br>unid object on<br>both launch pads   | All storage tanks<br>removed                 | Unserviceable;<br>paving blocks<br>removed front<br>& rear west<br>pad, front of<br>east pad |   |
| Yoshkar-Ola             | Launch Site 1 | IIB  | None  | Pipelines remov-<br>ed                       | Serviceable;<br>some paving<br>blocks removed<br>from center<br>service road                 | Launch stands removed   |
|                         | Launch Site 2 | IIB  | None  | All propellant<br>storage tanks re-<br>moved | Unserviceable;<br>paving blocks<br>removed from<br>in front & rear<br>both pads and<br>roads | Launch stands removed   |

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Table 2. Status of SS-7 Launch Sites

| ICBM Complex/<br>BE No. | Launch Site   | Type | Equipment on<br>Launch Pads      | Activity Observed<br>on Launch Site  | Missile-Associated<br>Vehicles on Site  | Remarks   | ICBM Complex/<br>BE No. | Launch Site    | Type | Equipment on<br>Launch Pads      | Activity Observed<br>on Launch Site  | Missile-Associated<br>Vehicles on Site   | Remarks                    |
|-------------------------|---------------|------|----------------------------------|--|---|---|-------------------------|----------------|------|----------------------------------|--|--|----------------------------|
| Drovnava                | Launch Site 2 | IIIA | --                               | None   | None  |   | Yedrovo                 | Launch Site 2  | IIB  | Launch stands & missile erectors | None   | 6 SS-7 fuel transporters & 6 SS-7 oxidizer transporters  |                            |
|                         | Launch Site 3 | IID  | Launch stands & missile erectors | 2 SS-7 missile transporters  | None  |   |                         | Launch Site 3  | IIA  | Launch stands & missile erectors | 3 SS-7 fuel transporters & 3 SS-7 oxidizer transporters on each launch pad                           | 6 SS-7 fuel transporters & 6 SS-7 oxidizer transporters  |                            |
|                         | Launch Site 4 | IID  | Launch stands & erectors         | 2 SS-7 missiles on transporters  | None  |   |                         | Launch Site 4  | IIB  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 5 | IIIA | --                               | Center silo door open; silo empty  | 1 SS-7 missile on a silo loader in front of silo  |   |                         | Launch Site 5  | IIB  | Launch stands & missile erectors | 1 SS-7 missile on a transporter  | None   |                            |
|                         | Launch Site 6 | IIIA | --                               | None   | None  |   |                         | Launch Site 7  | IIIA | None                             | None   | None   |                            |
|                         | Launch Site 2 | IIB  | Launch stands & missile erectors | 2 SS-7 missiles on transporters  | None  |   |                         | Launch Site 8  | IIIA | --                               | South silo door open; missile in silo; 5 trucks on loop road   | 1 SS-7 missile transporter on site, 2 SS-7 silo loaders & 4 truck-mounted crane in RIM                             |                            |
| Gladkaya                | Launch Site 3 | IIB  | Launch stands & missile erectors | None   | None  |   | Yoshkar-Ola             | Launch Site 9  | IID  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 5 | IIIA | --                               | 1 SS-7 missile in stages   | 3 SS-7 first-stage transporters, 3 SS-7 second-stage transporters, & 3 SS-7 silo loaders                                |   |                         | Launch Site 10 | IID  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 4 | IIB  | Launch stands & missile erectors | None   | 6 SS-7 fuel transporters, & 6 SS-7 oxidizer transporters  |   |                         | Launch Site 1  | IIB  | Launch stands & missile erectors | 1 SS-7 missile on a transporter  | 6 SS-7 fuel transporters   |                            |
|                         | Launch Site 6 | IID  | Launch stands & missile erectors | 1 SS-7 missile in stages   | 1 SS-7 missile transporter  |   |                         | Launch Site 2  | IIB  | Launch stands & missile erectors | 1 SS-7 missile on a transporter was on west launch pad, 7 propellant transporters on east launch pad | 11 propellant transporters   |                            |
|                         | Launch Site 7 | IID  | Launch stands & missile erectors | None   | None  |   |                         | Launch Site 3  | IIIA | --                               | All 3 silo doors were open; silos appeared empty   | 2 SS-7 first-stage transporters & 2 SS-7 second-stage transporters   |                            |
|                         | Launch Site 1 | IIIA | --                               | None   | 2 SS-7 missiles in stages were in the RIM fac   |   |                         | Launch Site 4  | IID  | Launch stands & missile erectors | None   | None   |                            |
| Kostroma                | Launch Site 4 | IIB  | Launch stands & missile erectors | None   | 1 SS-7 oxidizer transporter in site support fac   | 1 truck was on the loop road                                    | Yurya                   | Launch Site 5  | IID  | Launch stands & missile erectors | SS-7 missiles erected on each launch pad   | 1 SS-7 missile transporter   | 5 trucks were on loop road |
|                         | Launch Site 5 | IIIA | --                               | 1 SS-7 missile in stages   | 2 SS-7 silo loaders & 3 SS-7 oxidizer transporters  |   |                         | Launch Site 6  | IID  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 6 | IID  | Launch stands & missile erectors | 1 SS-7 missile in stages   | 1 SS-7 missile transporter  |   |                         | Launch Site 7  | IID  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 7 | IID  | Launch stands & missile erectors | None   | None  |   |                         | Launch Site 8  | IIIA | --                               | None   | 1 SS-7 first-stage transporter & 1 SS-7 second-stage transporter in RIM fac  |                            |
|                         | Launch Site 1 | IIIA | --                               | None   | 2 SS-7 missiles in stages were in the RIM fac   |   |                         | Launch Site 3  | IIB  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 2 | IIB  | Launch stands & missile erectors | None   | 1 SS-7 oxidizer transporter in site support fac   |   |                         | Launch Site 4  | IID  | Launch stands & missile erectors | None   | None   |                            |
| Novosibirsk             | Launch Site 3 | IIIA | --                               | None   | None  |   | Teykovo                 | Launch Site 5  | IID  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 4 | IID  | Launch stands & missile erectors | 1 SS-7 missile on a transporter  | None  |   |                         | Launch Site 6  | IID  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 5 | IID  | Launch stands & missile erectors | None   | None  |   |                         | Launch Site 7  | IID  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 1 | IIIA | --                               | 1 SS-7 first-stage transporter, 1 SS-7 second-stage transporter on loop road | 1 SS-7 silo loader  |   |                         | Launch Site 8  | IIIA | --                               | None   | 1 SS-7 first-stage transporter & 1 SS-7 second-stage transporter in RIM fac  |                            |
|                         | Launch Site 2 | IIIA | --                               | None   | None  |   |                         | Launch Site 3  | IIB  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 3 | IIIA | --                               | None   | None  |   |                         | Launch Site 4  | IID  | Launch stands & missile erectors | None   | None   |                            |
| Olyannaya               | Launch Site 3 | IIB  | Launch stands & missile erectors | 2 SS-7 missiles on transporters  | 7 SS-7 fuel transporter, 6 SS-7 oxidizer transporter  |   | Svobodnyy               | Launch Site 5  | IID  | Launch stands & missile erectors | 2 SS-7 missiles on transporters  | None   |                            |
|                         | Launch Site 4 | IIIA | --                               | 1 SS-7 missile 10 stages in RIM facility                                     | 2 SS-7 silo loaders, 3 SS-7 first-stage transporters, 3 SS-7 second-stage transporters                                  |   |                         | Launch Site 6  | IID  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 5 | IID  | Launch stands & missile erectors | 2 SS-7 missiles on transporters  | None  |   |                         | Launch Site 1  | IIA  | Launch stands & missile erectors | None   | 6 SS-7 fuel transporters & 6 SS-7 oxidizer transporters  |                            |
|                         | Launch Site 6 | IID  | Launch stands & missile erectors | 2 SS-7 missiles on transporters; trenching from front of east pad to east    | 1 SS-7 fuel transporter on east launch pad  |   |                         | Launch Site 2  | IIA  | Launch stands & missile erectors | None   | 1 SS-7 missile transporter, 7 SS-7 fuel transporters, & 6 SS-7 oxidizer transporter                                |                            |
|                         | Launch Site 1 | IIIA | --                               | None   | 3 SS-7 silo loaders, 3 SS-7 first-stage transporters, 4 SS-7 second-stage transporters (All in RIM)                     | All 3 silo doors closed; 19 cargo trucks in SS-7 prop of RTP on |                         | Launch Site 3  | IIB  | Launch stands & missile erectors | None   | 6 SS-7 fuel transporters, 6 SS-7 oxidizer transporters, & 1 SS-7 missile transporter                               |                            |
|                         | Launch Site 2 | IIIA | --                               | None   | 1 truck-mounted crane in nuc area   |   |                         | Launch Site 4  | IIB  | Launch stands & missile erectors | None   | 5 SS-7 oxidizer transporters, & 6 SS-7 fuel transporters   |                            |
| Shadrinsk               | Launch Site 3 | IIIA | --                               | None   | None  |   | Teykovo                 | Launch Site 5  | IIIA | --                               | None   | 2 SS-7 first-stage transporters, 1 SS-7 second-stage transporter, & 1 SS-7 missile in stages in RIM                |                            |
|                         | Launch Site 5 | IID  | Launch stands & missile erectors | None   | None  |   |                         | Launch Site 6  | IIIA | Launch stands & missile erectors | None   | 6 SS-7 fuel transporters & 6 SS-7 oxidizer transporters  |                            |
|                         | Launch Site 6 | IID  | Launch stands & missile erectors | None   | 1 SS-7 missile transporter  |   |                         | Launch Site 7  | IIB  | Launch stands & missile erectors | None   | 6 SS-7 fuel transporters, 6 SS-7 oxidizer transporters, & 1 SS-7 missile transporter                               |                            |
|                         | Launch Site 7 | IIIA | --                               | SS-7 silo loader on loop road  | 1 SS-7 missile in stages; 3 SS-7 first-RIM stage transporters, 3 SS-7 second-stage transporters, 1 nitrogen truck-1 TMC |   |                         | Launch Site 8  | IID  | Launch stands & missile erector  | An SS-7 missile on a transporter was on each launch pad  | None   |                            |
|                         | Launch Site 8 | IID  | Launch stands & missile erectors | None   | None  |   |                         | Launch Site 9  | IID  | Launch stands & missile erectors | None   | 1 SS-7 missile transporter   |                            |
|                         | Launch Site 1 | IIB  | Launch stands & missile erectors | None   | 6 SS-7 fuel transporters & 6 SS-7 oxidizer transporter  |   |                         | Launch Site 10 | IIIA | --                               | South silo door open, silo appeared empty  | 1 SS-7 missile in stages, 3 SS-7 first-stage transporters, 3 SS-7 second-stage transporters, & 2 SS-7 silo loaders |                            |
| Svobodnyy               | Launch Site 4 | IID  | Launch stands & missile erectors | None   | None  |   | Verkhnyaya Salda        | Launch Site 11 | IID  | Launch stands & missile erectors | None   | None   |                            |
|                         | Launch Site 5 | IID  | Launch stands & missile erectors | None   | None  |   |                         |                |      |                                  |  |  |                            |
|                         | Launch Site 6 | IID  | Launch stands & missile erectors | None   | None  |   |                         |                |      |                                  |  |  |                            |
|                         | Launch Site 1 | IIA  | Launch stands & missile erector  | 1 SS-7 missile on a transporter  | 6 SS-7 fuel transporters & 6 SS-7 oxidizer transporters   |   |                         |                |      |                                  |  |  |                            |
|                         |               |      |                                  |  |   |   |                         |                |      |                                  |  |  |                            |
|                         |               |      |                                  |  |   |   |                         |                |      |                                  |  |  |                            |

Table 3. Status of SS-8 Launch Sites

| ICBM Complex/<br>BE No. | Launch Site   | Type | Equipment on<br>Launch Pads   | Activity Observed<br>on Launch Site  | Missile-Associated<br>Vehicles on Site              | Remarks                               |
|-------------------------|---------------|------|---|--|---|---------------------------------------|
| Kozelsk                 | Launch Site 2 | IIC  | Launch stands &<br>erector  | None   | None  |                                       |
|                         | Launch Site 3 | IIC  | Launch stands &<br>erector  | Environmental cover<br>has been removed from<br>the west launch stand.         | None  | A truck was on the east Launch<br>pad |
|                         | Launch Site 4 | IIC  | Launch stands &<br>erector  | None   | None  |                                       |
|                         | Launch Site 5 | IIIB | --  | None   | None  |                                       |
|                         | Launch Site 6 | IIIB | --  | Center & north silo<br>doors were open; a<br>missile was in the north<br>silo. | 2 SS-8 missile transporters<br>& 1 SS-8 silo loader | 6 trucks were on the loop road        |
| Omsk                    | Launch Site 1 | IIIB | --  | North silo door open;<br>silo appeared to be<br>empty; 7 antenna doors<br>open | 2 SS-8 silo loaders were in<br>the RIM facility     | 5 trucks were near the open silo      |
| Tyumen                  | Launch Site 2 | IIC  | Launch stand &<br>erector uncovered<br>on east launch pads;<br>environmental cover<br>in place on west<br>pad | None   | None  |                                       |
|                         | Launch Site 3 | IIC  | Launch stand &<br>erector uncovered<br>on east launch pads;<br>environmental cover<br>in place of west pad    | None   | None  |                                       |

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